



# INTEGRATED CONTINGENCY PLAN (ICP) AND STORMWATER POLLUTION PREVENTION PLAN (SWP3) **TRAINING** 2016



## ICP/SWP3 - Agenda



- Safety Topics
- Laws and Regulations
- Integrated Contingency Plan (ICP)
- Storm Water Pollution Prevention Plan (SWP3)
- WFF's Environmental Management
   System (EMS)



## Laws and Regulations



- Federal
  - Clean Water Act 1972 Wastewater
  - Oil Pollution Act (OPA) 1990 Big Spill
  - Resource Conservation and Recovery Act
     (RCRA) 1976 Hazardous Waste
  - State DEQ regs



## ICP Requirement



# Why have an Integrated Contingency Plan?

- >1,320 gallons aboveground oil storage.
- As of December 2015, WFF has over 200,000 gallons of fuel in aboveground storage and over 300,000 gallons total for all petroleum products.





### **ICP** Applies To



Any container ≥ 55 gallons which contains oil

### This includes:

- Drums
- Tanks (aboveground and underground)
- Transformers
- Mobile Re-fuelers when parked
- Other oil storing equipment



### ICP Overview



### Goal to:

- Minimize hazards to humans and the environment from any release of oil or hazardous substance at WFF
- Coordinates efforts with:
  - WFF personnel
  - Local fire and police departments
  - Outside contractors
  - Department of Environmental Quality (DEQ)
  - Environmental Protection Agency (EPA)



### ICP Overview



Spill Prevention Control and Countermeasures Plan (SPCC)

Storm Water Pollution Prevention Plan (SWP3)

Integrated Contingency Plan (ICP)

Hazardous Waste Contingency Plan (HWCP)



## 2015 Edition



**National Aeronautics and Space Administration** 



### **Integrated Contingency Plan**



#### National Aeronautics and Space Administration Goddard Space Flight Center

Wallops Flight Facility
Wallops Island, Virginia 23337

www.nasa.gov

December 2015

### Available at:

http://sites.wff.nasa.gov/code250



Emergency

Contacts

for

WFF

### **CALL** 911



WFF Integrated Contingency Plan

37.01.01.16402

# IN CASE OF A SPILL, FIRE OR EXPLOSION AT THIS FACILITY, CALL 911 IF ON-SITE, OR CALL 757-824-1333 IF OFF-SITE

#### **EMERGENCY PHONE NUMBERS**

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA 23337

#### On-Site Phone Numbers:

**EMERGENCY** 

911

757-824-1333 (for mobile phones or when off-site)

#### **Emergency Coordinators:**

Member	Facility Phone	After Hours Phone	Radio Page	
Captain On-Duty	911	911	Fire Dispatch	
Fire Station #1	911	911	Fire Dispatch	
Fire Station #2	911	911	Fire Dispatch	

#### **Environmental Coordinators:**

Member	Facility Phone	Mobile Phone	Home Address
Theodore J. Meyer (Associate Chief, Medical and Environmental Division)	Ext. 1987	(443) 366-2268	30170 Providence Drive Salisbury MD 21804
Kelly Busquets (Alternate) (Environmental Engineer)	Ext. 2041	(808) 351-9324	2150 Orchard Drive Pocomoke MD 21851

#### Off-Site Phone Numbers:

National Response Center	800-424-8802
U.S. Environmental Protection Agency Region 3 Office	215-814-5000 800-438-2474
Virginia Department of Environmental Quality Tidewater Regional Office – Main Number	757-518-2000
Virginia Department of Emergency Management (24 hours)	800-468-8892
Eastern Shore Hazardous Material Response Team	911
Virginia Hazardous Material Coordinator	757-363-3891

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- 1. Plan Administration
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- 8. Integrated Contingency Plan Deviations



## ICP Appendices



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Appendix B Wallops Flight Facility Site Maps

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### Outdoor Aboveground Fuel Tanks



D-1











F-26





Indoor Aboveground Fuel Tanks







NOAA

Mobile Generator





V-3 Z-62





- Underground Storage Tanks
- Oil Filled Equipment









R-30 N-161

MARS Pad 0-A



## Oil-Filled Containers







E-2 N-223

- Containers with 55 gallon capacity or greater
  - Includes cooking oil





#### Large Spill Kit

(95-gallon spill kit absorbs up to 63 gallons; neon green color for high visibility and a snap on lid for easy access)



Tank Grounding System (Used to discharge the tank in the event of a charge build up from lightning)



Anti-Siphon Valve

(Prevents fuel from exiting tank if a line is broken or leaking)



(There should be adequate lighting 24 hours a day so that

any individual can easily see if the tank is leaking or if a spill has occurred)



Spill Basket

(Used to catch any fuel that spills during filling of the tank)



Neoprene Rubber Piping (Needs to be replaced due to

dry rotting and rubbing against objects)



### **Long Bolts on Manway Opening**

(The long bolts allow the manway cover to lift up and relieve pressure in the tank)



Seal Concrete Dike

(The concrete dike must be sealed liquid-tight to prevent any fuel contamination in the event of a leaking tank)







### Replace Plastic Travel Cap with Painted Steel Cap

(Plastic will degrade in the presence of petroleum and needs to be replaced with steel cap)



### Spill Basket Lock (Placed on all tanks to prevent individuals from stealing or contaminating the fuel)



#### <u>Driver Delivery Signs</u> (Present by all tanks and must be visible for the fuel delivery driver)

DRIVER WARNING

DO NOT NITURE FILE. OR OIL TRANSFERS PRIOR TO CHECKOM NITURE FILE. OR OIL TRANSFERS PRIOR TO CHECKOM NITURE FILE.

The fine has an expensive for inchange of fine-dense (16.00 file) and 17.200.

Out down angies and not assess pumping operation of the dense of the control of the dense of the control of the dense of the control of the dense of the dense

# Proper Tank Identification (Present on all tanks and must be visible for the fuel delivery driver; to verify proper tank identification please contact WFF Environmental Office)



### Tank Capacity and Inches Signs (Present on all tanks and must be visible for the fuel delivery driver; to verify proper capacity and inches please contact WFF Environmental Office)



### No Smoking Signs

(Present on all tanks and must be visible for the fuel delivery driver)



#### Label Piping

(Helpful in the event of a leaking pipe or during pipe maintenance)



#### **NFPA Label**

(Present on all visible sides of the tank; color coded, numerical system for indicating the health(B), flammability(R), reactivity hazards(Y), and special precautions (W); 4 is extreme and 0 is minimal)





## Vehicle Fueling





- No Smoking. Turn off engine. Leave electronic devices in vehicle. Discharge static electricity before fueling. If a fire starts, use the emergency stop button (ESTOP) to stop pumping fuel.
- Do not leave pump unattended when in use.





- Shut off engine unless used for transfer operation.
  - Set brakes, chock wheels prior to fuel transfers.
    - Check for sorbent material in delivery truck.
      - Protect adjacent storm drains.
- Perform bonding/grounding prior to fuel transfers, if necessary.
  - Use drip pails below hose connections.
    - No smoking during fuel transfers.





- Confirm that the tank or vehicle being filled can accept delivered volume.
- Maintain an unobstructed view of cargo tank and hose at all times.
- Inspect delivery vehicle for leaks prior to loading and prior to vehicle departure.
- Verify complete disconnect of hoses and bonding / grounding prior to removal of wheel chocks.





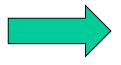












Before Fueling



Note: Procedure can be found in Section 3







Fuel delivery drivers AND tank owners are responsible for spill prevention.

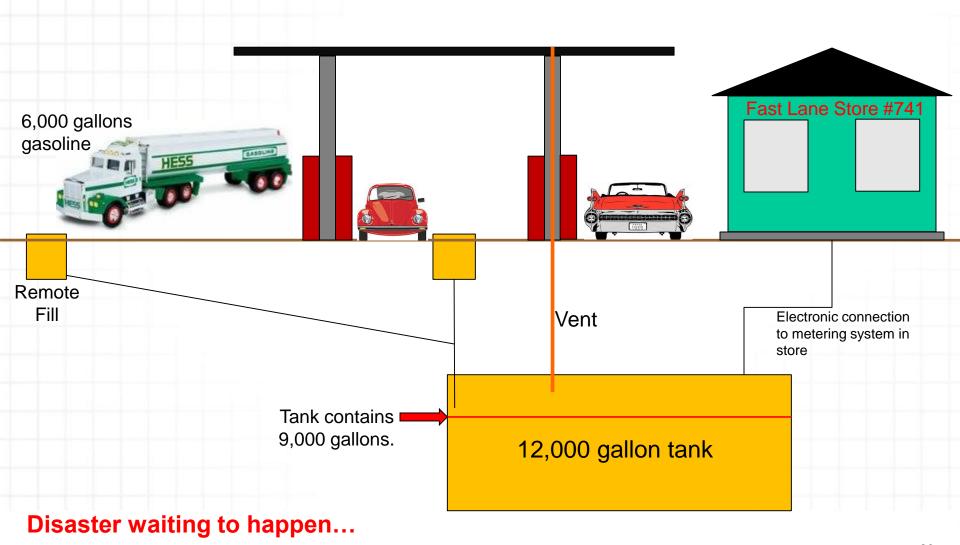
2015 - Rt. 90 and Brady Drive in Biloxi, MS.





### Filling Station Design







## Why Should You Care?







## Discharges



- Immediately notify the WFF Fire Department. Use internal fire alarm if available.
- Eliminate potential spark sources.
- Stop the flow.
- Contain the liquid with sorbent booms, etc.
- Debris from cleanup containerized properly.
- The FD and EO will complete applicable incident reports.
- Environmental Coordinator makes appropriate notifications of a reportable discharge:
  - Spreads beyond the immediate discharge area;
  - Enters water or has the potential to enter the water;
  - Spreads beyond WFF boundaries;
  - Requires special equipment or training to clean up;
  - Poses a hazard to human health or safety; or
  - There is a fire or explosion or the danger that one may occur.



### Major Discharge



- The discharge is large enough to spread beyond the immediate discharge area;
- The discharged material enters water or has the potential to enter the water;
- The discharge has spread beyond WFF boundaries;
- The discharge requires special equipment or training to clean up;
- The discharged material poses a hazard to human health or safety; or
- There is a fire or explosion or the danger that one may occur.



## What Should Be Done?



• Wash this spill to the nearest storm drain?

• Call 911?

Walk away?





## Waters of Virginia



"The discharged material enters water or has the potential to enter the water" applies to:



**Surface Waters** 



Wetlands



Groundwater



**Storm sewer systems** 



### Refugio State Beach, California May 18, 2015



- Crystal Clear Water
  - Incredible Waves
  - Beautiful Scenery
- Exceptional Wildlife Viewing







### Refugio State Beach California May 19, 2015



An estimated 20,000-100,000 gallons (less than 1% of Valdez spill) of crude oil spilled from a broken pipeline, pouring into the ocean for several hours. Two separate oil slicks covered nine miles of coastline in widths up to four miles.



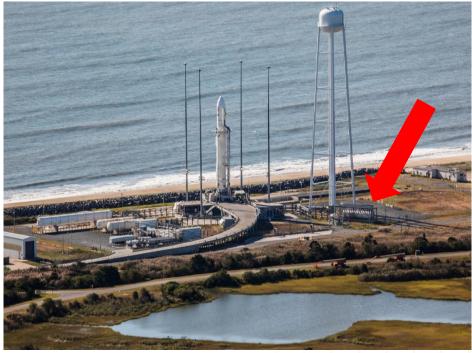


### Wallops Island Launch Pad OA



One tank at WFF containing 30,000 gallons of RP-1 (kerosene) is located just a few hundred feet from the Atlantic Ocean and over 300,000 gallons of petroleum products total at WFF.





Be safe, be alert, and report spills or concerns ASAP!



### Refugio State Beach, California





May 20, 2015

Clean up by hundreds of volunteers and government employees took approximately two months.



### Countermeasures



Countermeasures to contain and divert spills from entering waters of the Commonwealth of Virginia include the following:

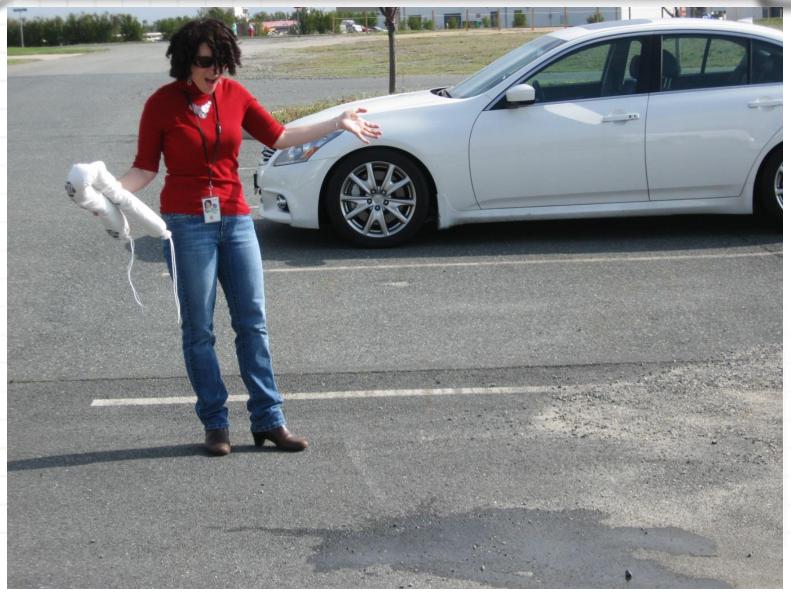
- Elimination of the source of the spill (i.e., shutting valves, banding piping, plugging ruptured tanks, etc.);
- Strategic placement of sorbent materials around or on top of spilled material;
- Placement of booms around proximate storm drain inlets and sanitary sewer manholes; and
- Construction of earthen dikes in the immediate area or downstream of the spill.

Note: Procedures can be found in Section 5



## What If ...







## And ...







## Then





**Call 911** 



### Countermeasures



#### Worst Case Scenario

### Spill Drill Exercise





Note: Worst Case Scenerios are described in Section 6.

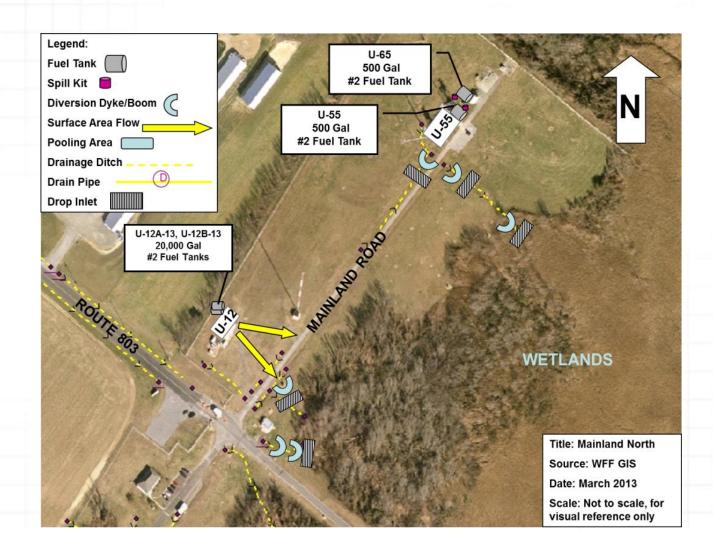


## Countermeasures



### Incident Briefing Plans

Note: Incident Briefing Plans can be found at the WFF Fire Department.





# Weekly AST Inspection



# Daily & Weekly Inspection is required for:

**D-1** 

**D-9A** 

**D-9B** 

F-26-1A

F-26-1B

U-12A&B

**MARS 33** 

Note: Procedures found in Section 7.

Forms found in Appendix M.

#### WEEKLY INSPECTION FORM ABOVEGROUND STORAGE TANK SYSTEMS:

ITEM	CONDITIONS	JO – Used Oil  COMMENTS(1)	REFERRED TO
TANK ID:			
Tank Condition			
Support Condition			
Staining on concrete or adjacent surfaces			
Tank area clear of debris			
Secondary containment free of oil, water and debris			
AST label appropriate and legible (not faded)			
Threaded fill caps kept closed when not in use			
Evidence of fuel spillage at remote fill and/or direct fill			
Fuel leaks visible on top of the tank or from piping			
Fuel gauge functioning properly			
All vent systems operational			
Status of spill kit supplies			
ls corrosion (rust) present on exterior surface of tanks, fittings or other equipment?			
(1) Provide comments below or a are commenting on.	attach additional sheets a	as necessary. Be sure to	note the item you

KEEP ON FILE FOR FIVE (5) YEARS.

MAKE AVAILABLE TO REGULATORY PERSONNEL UPON REQUEST.



# Monthly AST Inspection



Monthly
Inspection
is
required for
all
aboveground
storage
tanks.

MONTHLY ABOVEGROUND STORAGE SYSTEM INSPECTION CHECKLIST							
Building Number	Tank Number	Facility Name/Address	Inspected By	Date			
Were any issues found? Circle:	YES or NO		Was Task Order issued? Circle:	YES or NO			

CATEGORY	DESCRIPTION		
TANK COMPONENTS		Y, N, or N/A	COMMENTS
Condition of Tank	Is paint in good shape?		
	Is concrete pad or dike in good condition?		
	Does tank have adequate vehicle protection?		
Overfill Prevention	Does the tank have an overfill alarm and is it working properly?		
	Is the tank equipped with a functioning overfill prevention valve?		
Tank Gauge	Is the tank gauge legible, accurate, and working properly?		
Tank Ladders or Stairs	Is the tank ladder or stairs in good condition?		
Secondary Containment	Is the secondary containment area dry? (Interstitial or Concrete Dike)		
Interstitial Leak Detection	Have the leak sensors been physically activated/tested?		
	(Remove leak sensor and physically raise the rod. Should perform once annually. Place		
	date completed within comments.)		
Concrete Containment	Are the drain holes free of debris?		
Leaks	Is the tank area clean with no evidence of any leaks or spills? (Wipe areas		
	clean.)		
Tank Saddles	Are the saddles in good condition with no evidence of corrosion where the tank		
	meets the tank saddles?		
Vent	Are the primary and emergency vents unrestricted and working properly?		
Signage	Does the tank have proper signage: Hazard Diamond, Product, Working and		
	Design Capacity, Deliver Driver Instructions, and Tank Number?		
TANK FILL AREA		Y, N, or N/A	COMMENTS
<b>Spill Containment Manhole</b>	Is the spill bucket free of dirt, trash, water, or product?		
(Spill Bucket)			
Fill Pipe	Is the fill cap in good condition, seals tightly, and locked?		
Spill Kit	Is the spill kit in place and properly stocked?		
PIPING		Y, N, or N/A	COMMENTS
Condition of Piping	Is paint in good shape and no corrosion present?		
Support	Is the piping properly supported?		
Leaks	Are there visible stains or leaks present? (All stains should be wiped clean.)		

Instructions: If certain equipment is not required and/or not present, make a notation in the "COMMENTS" column. Describe the issues in the "COMMENTS" section and notify the appropriate person to request a task order be issued.

ADDITIONAL COMMENTS:



Monthly

inspection

is required for

55 gallon drums.

# Monthly Drum Inspection



#### MONTHLY INSPECTION FORM DRUM STORAGE AREA

Facility:	Goddard Space Flight Center	Date:	
	Wallops Flight Facility	Completed By:	
	Wallops Island, Virginia 23337	Company:	

ITEM	CONDITIONS	COMMENTS <sup>(1)</sup>	REFERRED TO
DRUM STORAGE AREA	<del></del>		
Containment area conditions			
Labels appropriate and legible			
Staining on concrete floor – evidence of leaks/spills			
Adequate spill kit supplies			

(1)	Provide comments below or attach additional sheets as necessary, are commenting on.	Be sure to note the item you

KEEP ON FILE FOR FIVE (5) YEARS.

MAKE AVAILABLE TO REGULATORY PERSONNEL UPON REQUEST.



# Quarterly Transformer Inspection



Quarterly inspection is required for all transformers, including those in storage.

WFF Int	egrated Contingency Plan			37	7.01.01.16402			
	REQUIRED QUARTERLY IN	SPECTION F	ORM			7		
	FOR TRANSFORMER TANKS							
Facility:	Goddard Space Fight Center		Month:					
	Wallops Flight Facility		Completed By:					
	Wallops Island, Virginia 23337	Company:	LJT & ASSOCIATES					
		0.11		EQUID COLUDITION (			DIE VOIL	
		OIL CAPACITY	IS THERE ANY	EQUIP CONDITION / NEW / GOOD / NEEDS	HAS OIL SAMPLE	HAS PM BEEN	DID YOU PLACE	NOTE ANY
CREW	SWITCH / XFMR #	FROM NAME	OIL LEAKING	REPAIR / NEEDS TO BE	BEEN TAKEN	PERFORMED ON	RODENT	REPAIRS
		PLATE (GAL)	FROM TANK	REPLACE	FROM XFMR	XFMR/SWITCH	CONTROL	NEEDED
	MAINBASE CIRCUIT 2	3						
	S/S 2A3							
	TR-F-3-1 112.5 KVA TRANSFORMER	195						
	TR-F-4 & F-5 150 KVA TRANSFORMER	184						
	MAINBASE CIRCUIT 3							
	S/S 3B1							
	TR-F007 225 KVA TRANSFORMER #1	137						
	S/S 3A6							
	TR-F010-4 500 KVA TRANSFORMER	191						
	0/0.040							
	S/S 3A6 TR-F011-1 & F009 & WELL 75 KVA XFMR	146						
	TR-FUTI-T & FUUS & WELL /5 KVA XFWR	146					0	



# Inspections







# Quiz



When should we report a release?

Who should we contact?

# What Should We Do in the Event

of an Emergency?

For ALL spills and releases, notify the Wallops Fire **Department** at:

Ext. 911

or

757-824-1333

(if using a mobile phone)





# Reporting a Spill



#### **Provide:**

Time of spill Location of spill Type/name of material spilled Estimated quantity Status of spill Cause of spill Name and code of reporting party



# OB Area Contingency Plan



#### Identify all sources of groundwater contamination

- Operations ejected fuel
- Non operations vehicle leak
- Emergency fire fighting water
- Groundwater monitoring spill into open well

#### In the event of an emergency at the Open Burn Area:

- · Evacuate the area
- Spread the alarm verbally
- · Call 911



### SWP3



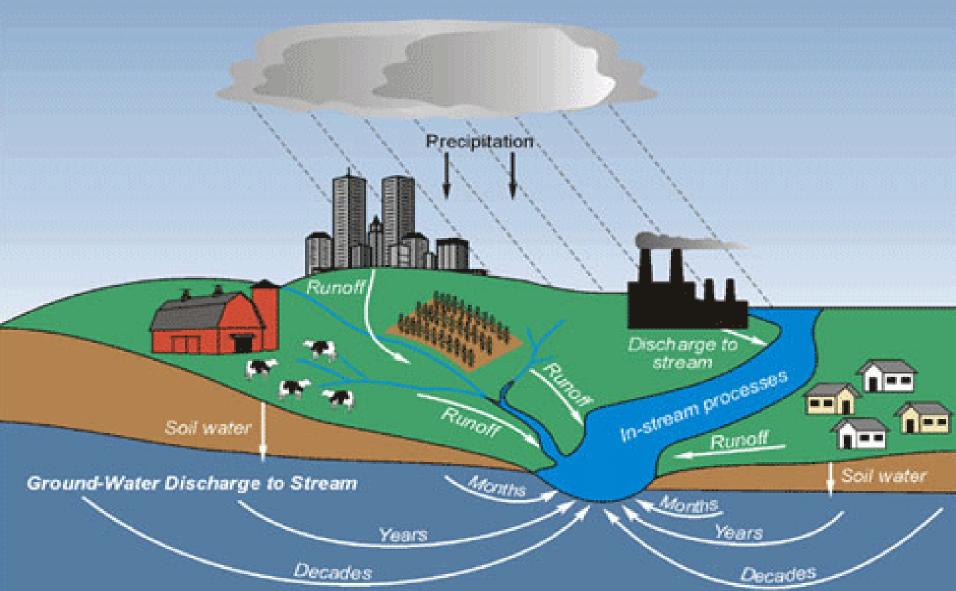
# The Stormwater Pollution Prevention Plan (SWP3):

- Is required by the Virginia Pollutant Discharge Elimination System (VPDES) permit
- Goal is to minimize the potential pollutants which could be carried away in stormwater discharge.



## Sources of Pollutants

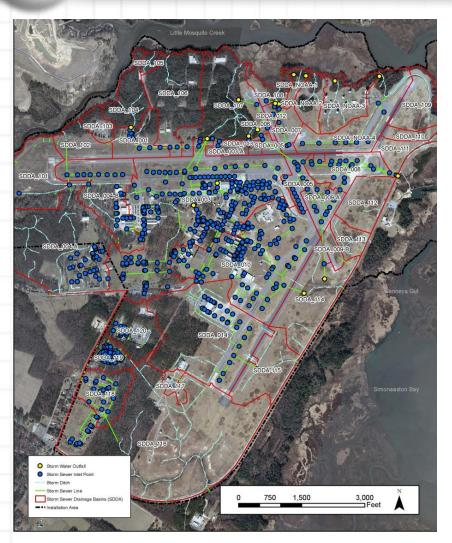






# Main Base Drainage Features





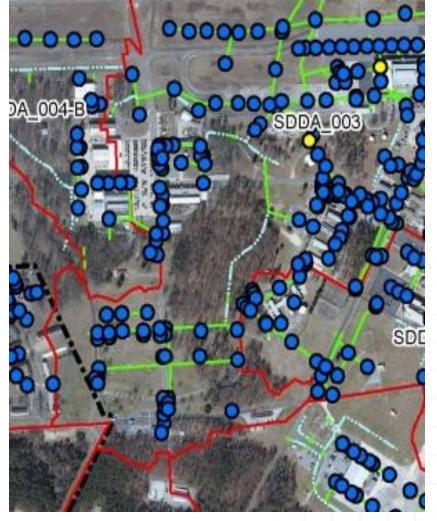


Figure B.3.1 WFF Main Base Drainage Features



## Mainland and Island Drainage Features









### Potential Pollutant Sources



#### Activities at WFF Addressed in SWP3:

- Petroleum Storage
- HW Accumulation Areas
- WFF Section 313 Water Priority Chemicals
- Vehicle Maintenance Facility
- Aircraft Runways
- Rocket Motor Storage Areas
- Environmental Areas of Concern
- Outdoor Drum Storage Areas
- Construction/Land Clearing
- Launch Support



### **BMP HW and Petroleum**



### Hazardous Waste Accumulation, Petroleum Storage, Drum Storage

- Store 55 gallon containers on secondary containment
- Attend ICP/SWP3 Training
- Complete monthly drum or HW inspection
- Limit outdoor storage of all containers and materials including materials such as scrap metal which may have residual oil
- Use good housekeeping practices (clean-up small spills, sweep-up and containerize spill material and metal shavings, pick up trash, etc.)



### **BMP HW and Petroleum**



# WFF Section 313 Chemicals Water Priority Chemicals

WFF reports for Section 313 Water Priority Chemical Lead and Lead Compounds

- Lead sheet metal F10 Machine Shop
  - Separately containerize scrap indoors
  - Notify Environmental of machine and cutting fluid where lead was machined
- Lead Solder WFF
  - Keep solder scraps properly contained in HW container
  - Call Environmental for a pick-up when full
- Rocket motor propellant
  - Containerize ejected propellant, label and store in Satellite Accumulation Area



# BMP Vehicle Maintenance





Preventive maintenance



Sorbent pads while working



Cover storm drains during outdoor repairs



# BMP Equipment Washing



# Management of Runoff

Wash oversize vehicles only at the D-1 Hangar Wash Rack





## BMP Aircraft Runways



- Inspecting fuel delivery trucks
- Training
- Covering storm drains when fueling
- Sweeping and vacuuming of runways - FOD removal
- Grass buffers between runways and drop inlets

### Stormwater and the Construction Industry



#### **Protect Natural Features**



- · Minimize clearing.
- · Minimize the amount of exposed soil.
- · Identify and protect areas where existing vegetation, such as trees, will not be disturbed by construction activity.
- · Protect streams, stream buffers, wild woodlands, wetlands, or other sensitive areas from any disturbance or construction activity by fencing or otherwise clearly marking these areas.

#### Construction Phasing



- · Sequence construction activities so that the soil is not exposed for long periods of time.
- · Schedule or limit grading to small areas
- · Install key sediment control practices before site grading begins.
- · Schedule site stabilization activities, such as landscaping, to be completed immediately after the land has been graded to its final contour.

#### **Vegetative Buffers**





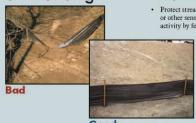
- · Protect and install vegetative buffers along waterbodies to slow and filter stormwater runoff.
- · Maintain buffers by mowing or replanting periodically to ensure their effectiveness.

#### Site Stabilization



· Vegetate, mulch, or otherwise stabilize all exposed areas as soon as land alterations have been completed.

#### Silt Fencing



- · Inspect and maintain silt fences after each rainstorm.
- · Securely attach the material to the stakes.
- · Don't place silt fences in the middle of a waterway or use them as

· Make sure the bottom of the silt fence is buried in the ground.

· Make sure stormwater is not flowing around the silt fence.

# Maintain your BMPs!

www.epa.gov/npdes/menuofbmps





#### Construction Entrances



- · Remove mud and dirt from the tires of construction vehicles before they enter a paved roadway.
- · Properly size entrance BMPs for all anticipated vehicles.
- · Make sure that the construction entrance does not become



#### Slopes



- Rough grade or terrace slopes.
- · Break up long slopes with sediment barriers, or under drain, or divert stormwater away from slopes.

#### **Dirt Stockpiles**



· Cover or seed all dirt stockpiles.

#### Storm Drain Inlet Protection



- · Use rock or other appropriate material to cover the storm drain inlet to filter out trash and debris.
- · Make sure the rock size is appropriate (usually 1 to 2 inches in diameter).
- · If you use inlet filters, maintain them regularly.





## BMP AOC



# Sediment and Erosion Control during work at Environmental Areas of Concern (AOC)





# BMP Housekeeping





- Wash mats or rugs in mop sinks.
- Don't empty mop buckets outside.





# BMP Facility-wide



### Visual Inspections of Storm Drains











#### 10 Things You Can Do to Prevent Stormwater Runoff Pollution

- Use fertilizers sparingly and sweep up driveways, sidewalks, and gutters
- Never dump anything down storm drains or in streams
- Vegetate bare spots in your yard
- Compost your yard waste
- Use least toxic pesticides, follow labels, and learn how to prevent pest problems
- Direct downspouts away from paved surfaces; consider a rain garden to capture runoff
- Take your car to the car wash instead of washing it in the driveway
- Check your car for leaks and recycle your motor oil
- Pick up after your pet
- Have your septic tank pumped and system inspected regularly





### ICP/SWP3 Points of Contact



If you have ANY questions or concerns please call any of the following people:

Owen Hooks - x1941

Monica Borowicz - x1023

Marianne Simko - x2127

Shane Whealton -x1090

**Hazardous Waste Line - x1718** 



### Water Conservation

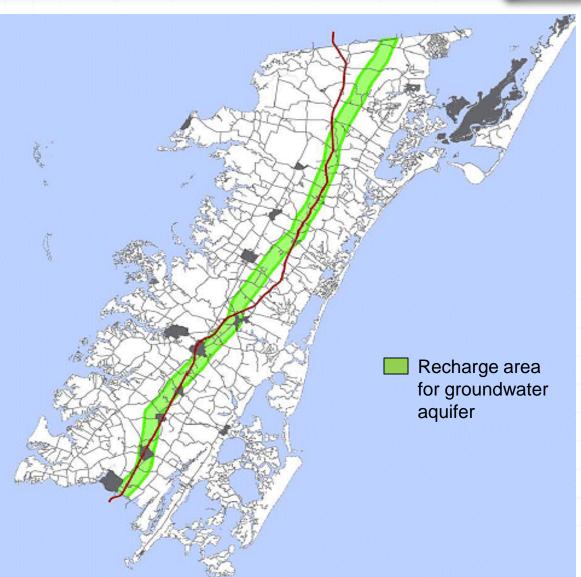


Eastern Shore of Virginia is an EPA designated Sole Source Aquifer

Water Quality is an EMS Medium Priority

#### Executive Order 13693

- Reduce potable water consumption by 36% in FY 2025
- Reduce industrial, landscaping, and agricultural (ILA) water by 2% annually through FY2025
- Install green infrastructure to help with storm and waste waster management





### Water Conservation



#### What we do...

- Low-flow water fixtures
- Participate in Regional Groundwater Meetings
- Drinking water aquifer not used for cooling towers

#### What you can do...

- Report leaks to HELP Desk
- Consider ways to reduce water use in your work



## **Environmental Policy**



GSFC commits to conducting its mission in a manner that promotes environmental stewardship. As an integral part of all mission planning and implementation, Goddard's Environmental Policy is to:

- a. Consider the neighboring natural environment while executing the Goddard Mission;
- b. Comply with relevant federal, state, and local legislation and regulations; Executive Orders; NASA policies and other requirements;
- c. Prevent pollution and conserve natural resources;
- d. Implement pragmatic and cost effective solutions to environmental problems;
- e. Communicate with the Goddard family, our partners and the public; and
- f. Continue to improve our environmental performance through our environmental management system including:
  - 1) Promote awareness through education and training;
  - 2) Consider the environment as we do our jobs;
  - 3) Explore advances in environmental technology; and
  - 4) Provide a framework for setting objectives and targets.

These commitments enable each of us to do our part for environmental stewardship in our community.



### WFF EMS



# High Priorities for FY2016:

- Hazardous Waste
  - Site Restoration
- Environmental Planning
  - Air Quality